

- 31 -

CLAIMS

1. An inkjet recording device, comprising:

a conveyance belt tensioned on a plurality of
5 rollers for conveying a recording medium while rolling, said
conveyance belt being charged to hold the recording medium
thereon for conveyance;

a recording unit configured to eject ink onto the
recording medium on the conveyance belt; and

10 a guide unit arranged on the inner side of the
conveyance belt facing the recording unit between two of the
rollers, said guide unit being arranged to push a portion of
the conveyance belt so that the pushed portion of the
conveyance belt approaches the recording unit.

15

2. The inkjet recording device as claimed in
claim 1, wherein an upper face of said guide unit is higher
than the upper tangent line of two of the plurality of rollers.

20

3. The inkjet recording device as claimed in claim
1, wherein

the guide unit includes a plurality of projecting
stripes on a surface of the guide unit in contact with the
conveyance belt, said projecting stripes being arranged in a
25 direction perpendicular to a rolling direction of the

- 32 -

conveyance belt.

4. The inkjet recording device as claimed in claim
3, wherein a width of each of the projecting stripes is
5 substantially less than or equal to 5 mm.

5. An inkjet recording device, comprising:
a conveyance belt tensioned on a plurality of
rollers for conveying a recording medium while rolling, said
10 conveyance belt being charged to hold the recording medium
thereon for conveyance;

a recording unit configured to eject ink onto the
recording medium on the conveyance belt;

a guide unit arranged on the inner side of the
15 conveyance belt facing the recording unit between two of the
rollers; and

delivering rollers arranged to carry the recording
medium conveyed by the conveyance belt after recording so as
to further convey the recording medium, a height where said
20 delivering rollers carry the recording medium being lower than
the height of an upper face of said guide unit in contact with
the conveyance belt.

6. The inkjet recording device as claimed in claim
25 5, further comprising:

- 33 -

a conveying roller arranged in contact with one of the rollers tensioning the conveyance belt to convey the recording medium to the recording unit, a height where said conveying roller carries the recording medium being lower than
5 the height of the upper face of said guide unit in contact with the conveyance belt.

7. The inkjet recording device as claimed in claim 6, wherein the height where said conveying roller
10 carries the recording medium is higher than the height where said delivering rollers carry the recording medium.

8. The inkjet recording device as claimed in claim 7, wherein the recording medium is inverted before being
15 carried by the conveying roller.

9. The inkjet recording device as claimed in claim 1, further comprising:

a separation unit arranged on a downstream side
20 relative to the pushed portion for separating the recording medium from the conveyance belt after recording.

10. The inkjet recording device as claimed in claim 9, wherein the separation unit includes a separation claw.

- 34 -

11. The inkjet recording device as claimed in claim 10, wherein the separation claw is arranged to be contactable to and separatable from a surface of the conveyance belt.

5 12. The inkjet recording device as claimed in claim 1, further comprising:

a guide roller arranged on the inner side of and in contact with the conveyance belt at one of the ends of the guide unit along the rolling direction of the conveyance belt.

10

13. An image forming apparatus, comprising:

a conveyance belt tensioned on a plurality of rollers for conveying a recording medium while rolling, said conveyance belt being charged to hold the recording medium

15 thereon for conveyance;

a recording unit configured to eject ink onto the recording medium on the conveyance belt; and

a guide unit arranged on the inner side of the conveyance belt facing the recording unit between two of the
20 rollers, said guide unit being arranged to push a portion of the conveyance belt so that the pushed portion of the conveyance belt approaches the recording unit.

14. An image forming apparatus, comprising:

25 a conveyance belt tensioned on a plurality of

- 35 -

rollers for conveying a recording medium while rolling, said conveyance belt being charged to hold the recording medium thereon for conveyance;

a recording unit configured to eject ink onto the
5 recording medium on the conveyance belt;

a guide unit arranged on the inner side of the conveyance belt facing the recording unit between two of the rollers; and

delivering rollers arranged to carry the recording
10 medium conveyed from the conveyance belt after recording so as to further convey the recording medium, a height where said delivering rollers carry the recording medium being lower than the height of an upper face of said guide unit in contact with the conveyance belt.

15

15. The image forming apparatus as claimed in claim 14, further comprising:

a conveying roller arranged in contact with one of the rollers tensioning the conveyance belt to convey the
20 recording medium to the recording unit, a height where said conveying roller carries the recording medium being lower than the height of the upper face of said guide unit in contact with the conveyance belt.

25

16. A sheet conveyance device, comprising:

- 36 -

a conveyance belt tensioned on a plurality of rollers for conveying a recording medium while rolling, said conveyance belt being charged to hold the recording medium thereon for conveyance; and

5 a guide unit arranged on the inner side of the conveyance belt between two of the rollers, said guide unit being arranged to push a portion of the conveyance belt from the inner side of the conveyance belt to outside of the conveyance belt so that the pushed portion of the conveyance
10 belt is projected.

17. The sheet conveyance device, comprising:

a conveyance belt tensioned on a plurality of rollers for conveying a recording medium while rolling, said
15 conveyance belt being charged to hold the recording medium thereon for conveyance;

a guide unit arranged on the inner side of the conveyance belt facing the recording unit between two of the rollers; and

20 delivering rollers arranged to carry the recording medium conveyed from the conveyance belt after recording so as to further convey the recording medium, a height where said delivering rollers carry the recording medium being lower than the height of the upper face of said guide unit in contact
25 with the conveyance belt.

- 37 -

18. The sheet conveyance device as claimed in claim 17, further comprising:

a conveying roller arranged in contact with one of
5 the rollers tensioning the conveyance belt to convey the recording medium to the recording unit, a height where said conveying roller carries the recording medium being lower than the height of the upper face of said guide unit in contact with the conveyance belt.

10